

19980125.qrp v00_n981.qrs.980125

Date: Sun, 25 Jan 1998 19:03:13 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 981

QRP-L Digest 981

Topics covered in this issue include:

- 1) [1856] Let's Sing CW... Live or CD?
by jdenison@morelr.com (JOEL DENISON)
- 2) [1857] NJ-QRP Beacon on now!
by "Heron, George" <G.Heron@dialogic.com>
- 3) [1858] Re: beacon 1-24-98
by Scott Bauer <ke3nv@erols.com>
- 4) [1859] How do I Print the solder side from Circad ver 3.8
by n3fel@juno.com (Howard D Rubin)
- 5) [1860] WA2HOQ 40 METER BEACON
by RangerSF5@aol.com
- 6) [1861] Missing pages QRP Quarterly
by "ALAN KAUL" <alan.kaul@worldnet.att.net>
- 7) [1862] "Ugly Weekender" Xmitter
by AA3BP@aol.com
- 8) [1863] Beacon results
by "Dean Marzocca" <n2tnn@ifu.net>
- 9) [1864] Re: Those missing pages from Q.Q. (Jan 1998)
by Monte Stark <ku7y@sage.dri.edu>
- 10) [1865] Newbie's Rpt on Making PCB's (long) (some elmering stuff)
by "Adam B. Kanis" <adam-kanis@uiowa.edu>
- 11) [1866] KnightSMiTe prototype success
by PDouglas12 <PDouglas12@aol.com>
- 12) [1867] Re: Missing pages QRP Quarterly
by Monte Stark <ku7y@sage.dri.edu>
- 13) [1868] logging program
by "Dean Marzocca" <n2tnn@ifu.net>
- 14) [1869] Elmering: Let's Start!
by PGSPersEng <PGSPersEng@aol.com>
- 15) [1870] beacon again
by "Dean Marzocca" <n2tnn@ifu.net>
- 16) [1871] "Ugly Weekender"
by "D.K. Philbin" <dphilbin@slonet.org>
- 17) [1872] Re: KnightSMiTe prototype success
by W7LS <w7ls@blarg.net>
- 18) [1873] Re: How do I Print the solder side from Circad ver 3.8
by Steven Weber <kd1jv@moose.ncia.net>
- 19) [1874] Re: Toko IF cans..ID

- by Leon Heller <leon@lfheller.demon.co.uk>
- 20) [1875] Low pass filters and bootstrapped amps...
by Sam <kc5tja@animeonline.ml.org>
- 21) [1876] TEntec 1320 sold! Thanks, all.
by W7LS <w7ls@blarg.net>
- 22) [1877] Re: Twist on Elmer Project
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 23) [1878] Re: Toko IF cans..ID
by bruce muscolino <w6toy@pop.erols.com>
- 24) [1879] Re: Elmers wanted...take charge yourself
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 25) [1880] MFJ 6mtr xcvr
by "JUNIUS B FOX" <w5hir@gte.net>
- 26) [1881] Navy Code Training
by Craig LaBarge <LaBarge_C@compuserve.com>
- 27) [1882] RF Parts web-site? E-mail?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 28) [1883] How to check for matched pair of transistors?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 29) [1884] Re: QRP-L digest 980
by David Shalita <af389@lafn.org>
- 30) [1885] Re: Conductive grease
by bcutter@teal.csn.net (Bob Cutter)
- 31) [1886] Gel Cells, again
by "Ken Hanks" <kennfd@ibm.net>
- 32) [1887] NEW ENGLAND QRP WEB PAGE
by Al Bates 617-589-0165 <BATES@A1.MOS.ORG>
- 33) [1888] Elmering - Articles and Books
by "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
- 34) [1889] Do We Really Need to be Soldering First? (long) (was Elmer project)
by "George T. Baker" <w5yr@swbell.net>
- 35) [1890] Re: Elmering: Let's Start!
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 36) [1891] SWL-40 /NE40-40
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 37) [1892] Re: CW in a song
by Bensondj@aol.com
- 38) [1893] Re: Elmering: Let's Start!
by "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
- 39) [1894] Re: Toko IF cans..ID
by Steven Weber <kd1jv@moose.ncia.net>
- 40) [1895] Re: Elmering: Let's Start!
by Steven Weber <kd1jv@moose.ncia.net>
- 41) [1896] NW80, funky TX? help!
by "Jeff M. Gold" <JGold@tntech.edu>
- 42) [1897] FS: OHR WM-1, Healthkit HM-9, Argo Module
by K3TE <qrp@earthlink.net>
- 43) [1898] Re: Elmering: Let's Start!

- by Robert Bayha <rbayha@ix.netcom.com>
- 44) [1899] Re: Elmering - Articles and Books
by Richard Sherman <srichard@aldus.northnet.org>
- 45) [1900] Re: SWL-40 /NE40-40
by Jess Gypin <jessgrp@concentric.net>
- 46) [1901] NewsLine Amateur Radio News (in RealAudio)
by "Ron Polityka" <wb3aal@talon.net>
- 47) [1902] FS:MFJ-9420
by KG2IM <KG2IM@aol.com>
- 48) [1903] Re: SWL-40 /NE40-40
by "Ray Lowe" <wd5dhk@hotmail.com>
- 49) [1904] Re: Elmering: Let's Start!
by "Dan Hogan" <dhhogan@lightside.com>
- 50) [1905] CQWW 160M CW
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 51) [1906] Shuttle launch in Feb??
by n2beg@juno.com (Douglas E. Stewart)
- 52) [1907] beacon info
by RangerSF5 <RangerSF5@aol.com>

Date: Sat, 24 Jan 1998 18:26:36 -0600 (CST)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-l@Lehigh.EDU
Subject: [1856] Let's Sing CW... Live or CD?
Message-ID: <199801250026.SAA14912@m20.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

CW is a song:

Some people can't sing or just don't like the tune, but being a bit witty they invented RTTY. So when reception is tough there's CW, by hand or RTTY, singing its song and passing information along.

Which is best, CW by hand or RTTY? I guess there is a bottom line here, but which is more fun and less fuss? I guess this is a question we shall forever discuss...

didi-dahdah-didi is my favorite ?

Shall we get on the air and have a sing-along?

: -) : - 0 (- :

joel wa5cvm

God Bless

Joel

WA5CVM

Joel Denison
PO BOX 542
Strong, Maine 04983
jdenison@morelr.com

Gentle Lady (RC Sail Plane)(049 engine - start)
80 mtr dipole up 50ft
QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
AK/QRP 109

Date: Sat, 24 Jan 1998 19:32:54 -0500
From: "Heron, George" <G.Heron@dialogic.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [1857] NJ-QRP Beacon on now!
Message-ID: <DF8C9288E968D011A5950060972035B102BFB805@mailnj.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain

Hi All,

I wanted to quickly mention a couple of things from the Jersey side of the country ...

1) We're currently running some tests from central Jersey to determine propagation characteristics ... Dean N2TNN is running a beacon at 3W on 3686.4 KHz ... if the reports are favorable here (or plus/minus several hours), the NJ-QRP Club will be conducting weekly net meetings at some point in the near future. Would be great to learn how far the beacon reaches. Give a quick listen and report any results back to me (g.heron@dialogic.com). Tests going on until 0000Z Jan 25. TIA.

2) Just have to mention that we had a FABULOUS club meeting today ... one that sounds like a mini-NorCal meeting from out west. We had over 30 members attend a gathering in a food court of a small mall in Princeton where we had about 10 tables of equipment: all sorts of QRP rigs, a spectrum analyzer, CCW modem, filters, computer programs ... and a SUPER talk given by our elmer Joe Everhart N2CX. For about an hour, Joe provided good explanation of the Pixie-2 schematic via some superb handouts and a circuit diagram on a large chartboard -- how it works, possible future enhancements, current limitations, interfacing with the TiCK keyer chip from Embedded Research, and antennas that would be appropriate for our upcoming 80m club net using the Pixies. There were many questions and lots of interest in this little gem of a club project.

Thought all would be interested in what's happenin' Over Here! (For

more details on the meeting, the Pixie-2, our Net/Beacon tests, and more, check out the NJ-QRP website.)

72,

--George N2APB
for the NJ-QRP Club
<http://www.njqrp.org>

Date: Sat, 24 Jan 1998 19:58:35 -0500 (EST)
From: Scott Bauer <ke3nv@erols.com>
To: n2tnn@ifu.net, qrp-1@Lehigh.EDU
Subject: [1858] Re: beacon 1-24-98
Message-ID: <199801250058.TAA20847@smtp2.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dean,

Listening to your beacon at 0050z.
RST 579 to 599 plus 10
Freq 3586.2
Very good qrp signal near Baltimore, Md

72, Scott w3cv

At 04:26 PM 1/24/98 -0500, you wrote:

>Hello all,

>

>I will be running a beacon tonight starting at 2300 UTC for approximately 2
>hours.

>

>Rig QRP+ w/ companion tuner and battery

>ant dipole NW-SE direction

>TICK-2B keyer in the beacon mode

>pwr----- YOU TELL ME!!!!!!

>Frequency 3.686.4

>

>This is a club project. The NJQRP club met today in Princeton, NJ and is
>investigating the 80 meter propagation due to the fact that we passed out
>20 new Pixie kits. Please report all contacts and provide a signal report.
>This information will help up to possibly get a net going on a weekly
>basis.

>
>Post all information to the NJQRP mail list or to me at the address listed
>below.
>
>72/73 Dean N2TNN NJ
>n2tnn@ifu.net
>
>
>

Date: Sat, 24 Jan 1998 21:01:33 -0500
From: n3fel@juno.com (Howard D Rubin)
To: qrp-1@Lehigh.EDU
Subject: [1859] How do I Print the solder side from Circad ver 3.8
Message-ID: <19980124.210137.9190.1.n3fel@juno.com>

PCB weenies:

I'm about 75% finished a board layout for the Morse Code Adapter by N1CWR in the December QST Hints and Kinks. I am using Circad 3.8 and thought I might try to get a printout before finishing the job. I used the alt-P command and setup my printer to PRN1. The top-side symbols diagram came forth with relative ease. Ah, life is good. But wait. No wiring. I tried printing again, this time with "1" in the bottom wiring field. Great. Now I get the wiring, but it is shown on the top-side with the component symbols. No fun.

I used the mirror option in the setup menu so that the wiring would appear as it would be seen from the solder side. Nothing from the printer appeared. Pointing to the bottom layer selection box in the output screen, I sequentially tried all numbers from 6 through 1 with no luck. Hmmm.

Has anyone been able to print both sides of their layout? Do I have to register the program at \$299. to get the full-up version that contains all of the output functionality?

Oh, one other thing. The PTT delay timer seems to want to discharge 33uF through the C-E junction of the 3904 and contacts of the keyer in less than 1mSEC which probably will generate enough current to damage the transistor and/or pit the contacts. So I've designed another monostable timer which should correct the problem. By the way, I'm planning to make a few modifications that should make it work with my ICOM 2AT and RS HTX202/404 and eliminate the reed relay. I will also add pads for the

TICK-1 keyer IC instead of the straight-key input.

Anyone interest in the details of the final design, including the Circad board layout, may request directly to n3fel@aol.com (not the qrp-l or n3fel@juno.com address which I use exclusively for newsgroup downloads).

Regards, Howard Rubin - N3FEL

Date: Sat, 24 Jan 1998 21:18:30 EST
From: RangerSF5@aol.com
To: njqrp@njqrp.org, qrp-l@Lehigh.EDU, epaqrp-l@Lehigh.EDU
Subject: [1860] WA2HOQ 40 METER BEACON
Message-ID: <5aaf55b.34caa0f8@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have a MFJ down to 2 watts measured into a dummy load.
will be on untill midnight est
Bob
WA2HOQ
appx 7.038 Ant is dipole

Date: Sat, 24 Jan 1998 18:17:27 -0800
From: "ALAN KAUL" <alan.kaul@worldnet.att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [1861] Missing pages QRP Quarterly
Message-ID: <19980125021757.AAA3025@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I am missing pages 21-22-23-24 and 45-46-47-48 from the January 98 issue of Qrp Q. I'm not sure if the mistake was a page numbering problem at the printer, or if the printer stapled duplicate sets of other pages in at the expense of the missing pages, or if there was a screwup in general and there were no pages 21-22-23-24-45-46-47-48. I did notice a reference after I resubscribed (I had been off the list for a vacation followed by an out-of-town work assignment) to a missing schematic for an LC Test Device -- but I'm not sure that is part of the same trouble, or a different

problem..... What's on the pages missing from my magazine? And if I send someone a buck or so to make copies, and an SASE, could I get the missing pages mailed??

Pls and tn timer, 73 and 72 for now..de alan

Alan Kaul, W6RCL

Amateur Radio website: <http://home.att.net/~alan.kaul/w6rcl.html>

alan.kaul@worldnet.att.net

w6rcl@amsat.org

Date: Sat, 24 Jan 1998 21:38:43 EST

From: AA3BP@aol.com

To: qrp-l@Lehigh.EDU

Subject: [1862] "Ugly Weekender" Xmitter

Message-ID: <64567baf.34caa5b4@aol.com>

Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

Having had good luck with building KA7EXM's 40m "Ugly Weekender" transmitter (1993 ARRL Handbook) and companion rx (June '92 QST), I would like to build a 30m version. Somewhere I remember seeing a reference to a 30m adaptation of the UW, but no specifics.

Does anyone have any specs and/or hints as to component changes necessary for 30m?

I realize this design is not in the league with current QRP transceivers, but it is an easy junkbox project that really works well. It's the only one I've seen which includes a true vfo that's easy to get working. The companion receiver is DC, but competes well with some of my qrp superhets.

Anyway, any assistance from you guru's will be greatly appreciated.

73,

Jim, AA3BP

Date: Sat, 24 Jan 1998 22:13:55 -0500

From: "Dean Marzocca" <n2tnn@ifu.net>

To: "NJ QRP list" <njqrp@waterw.com>

Cc: "Knightlites" <klqrp@waterw.com>, "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [1863] Beacon results

Message-ID: <199801250315.WAA22702@ifu.ifu.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Thanks for all the reports. Ask a favor and ye shall get! Wow, what a response with such short notice.

The NJQRP group is looking to get a net on the air and hoping to take advantage of all the new Pixies out there and soon to be SMiTes. Since we were unsure of the propagation a test was in order. Look at the reports of the stations reporting in and see for yourself that this frequency is a winner. How about 3 watts pushing a meter 40 over S9!!!!!!!

North MI 579
Raleigh, NC 579
Poconos, PA 10 over 9
Detroit S5
Baltimore 10 over 9
Des Moines IA S2-S3
Syracuse, NY 569
NY 599
NC S9 and S5 on a SMiT
Atlanta 549
NJ 1 beaver? (must be a FB report)
S7-S9
20-30 over 9
559
40 over 9
579

Looks like 16 check-ins with very short notice. Let me ask if there is any interest if I run a beacon tomorrow? This is the request I received with one report:

>Will be interesting to see how this compares with earlier transmissions
>(say 3-4 pm) and with later (9-10 pm).

>

>Can you try these 3-4pm and 9-10 slots tomorrow (Sunday)?

I will put the TiCK back on tomorrow if there is interest. Let me know tonight or in the morning.

72/73 Dean N2TNN NJ
n2tnn@ifu.net

Date: Sat, 24 Jan 1998 19:54:14 -0800
From: Monte Stark <ku7y@sage.dri.edu>
To: g4wif@btinternet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1864] Re: Those missing pages from Q.Q. (Jan 1998)
Message-ID: <34CAB766.5EBF@sage.dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Tony,

Many thanks to you and Steve. I had that scanned in and have no idea what all the settings were!

Feel free to post anyplace you think it will be handy.

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sat, 24 Jan 1998 22:24:28 -0600
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
To: qrp-l@Lehigh.EDU
Subject: [1865] Newbie's Rpt on Making PCB's (long) (some elmering stuff)
Message-ID: <3.0.3.32.19980124222428.00696d08@molsun.ophth.uiowa.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

hi

somewhat relevant to the interesting "enthusiastic" thread on the elmering, i thought i'd let other pcboard newbies hear of some progress i've had in making my own pc boards (if we all must walk the path that the RF professionals and intrinsically enabled walk everyday, why don't we help each other out!). this culminated earlier this week in my first "real" pcboard using resist and etchant (i've done some by cutting islands), and it worked great. yes, i finally jumped in.

first of all, to add fuel to both sides of the elmering fire, i did do

reading before hand, but also had several back & forth emails with a regional (not quite local) ham who does lots of homebrewing and is a great email elmer.

WHY: needed to make mic amp for my Centennial 80m SSB radio. Also, needed excuse to design a pc board with the ISIS pcbboard design software i recently bought. best motivation to learn is a need. so other newbies: find something you need, and don't have a kit for! no, i didn't design the circuit (it was a W1FB design), but when i do design something, i'm going to have to build it, and will likely need/want a pc board. I guess this is the "path to the path of learning how to design".

the story longish, so instead of posting it all here, i put it on my web-site

<http://genome33.ped-gen.uiowa.edu/hamradio>

summary: (of how I did things, not necessarily the only or best way).
how to silver plate pc board material (including CAUTION warning)
how to use PnP Blue transfer material to get resist traces onto pcbboard.
how to etch the board
how to drill the board

if you don't have web access, send me an email and I'll email you the text.

I want to thank David, WA0AUQ, for all his help, and would like to refer you to the SEITS web-pages for some of the sources of the information i'm presenting:

<http://www.seits.org/seits>

BTW - Had even more fun evaluating the amp with a signal generator and scope. gain of about 19. pretty flat response from 500-5000 Hz. fall off sharply below 200 Hz, raises up above 5000 Hz. Not great for SSB, so next will add in band-pass filtering.

--adam, n2brt

```
=====
Adam B. Kanis, N2BRT      QTH: Wellman, IA (Near Iowa City) EN41ck
adam-kanis@uiowa.edu     QRP ARCI : NorCal : QRP-L: G-QRP : CQC
    Straight Key : OHR-100 40m : Carolina Beam oriented N/S
** On the Web at      http://genome33.ped-gen.uiowa.edu/hamradio **
=====
```

Date: Sat, 24 Jan 1998 23:25:38 EST
From: PDouglas12 <PDouglas12@aol.com>
To: QRP-L@Lehigh.EDU
Subject: [1866] KnightSMiTe prototype success
Message-ID: <292db40a.34cabec4@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Gang,

I have had the privilege over the past year or two to get my mits on a number of pre-production kits for beta testing. I suppose the idea is to send the kit to a fool like me to make sure it is fool proof. Well, you guys are in for a treat this time. The Knight Lites down South of this locale have put together a doozy.

The KnightSMiTe is a Pixie derivative with full QSK and offset with a little bit of adjustment available around 3.686 (maybe a kHz or so) in an all surface mount version. That's right all surface mount. Get out your magnifiers and give this new technology a try. If I can do it, you can do it. Mine worked off the bat, and I made my first contact this evening. It comes with terrific instructions, with lots of info on how to deal with new surface mount parts/boards. This one is tiny enough to try to put into something interesting, though you may need to consider a metal case for intermod/broadcast interference in the little DC receiver at night. I get about 150 mW on transmit with a 9v Alkaline battery. Check with Bob Kellogg (ae4ic@nr.infi.net) for pricing, but these little fellers are a steal and they work. Since local nets here on LI/NJ are starting up on this freq and the KL net meets there on Sunday nights, this baby rig ought to be a fun way to check in or for those Pixie contests. This is a Pixie, when you check under the hood, so to speak, so it should qualify for the Pixies' competitions too.

Anyway, it is a blast doing test piloting, especially for such a neat kit.

72,

Preston WJ2V

Date: Sat, 24 Jan 1998 20:27:35 -0800
From: Monte Stark <ku7y@sage.dri.edu>
To: alan.kaul@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1867] Re: Missing pages QRP Quarterly
Message-ID: <34CABF37.3F66@sage.dri.edu>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Alan,

Yes, I made some posts to QRP-L about the error. Some issues were put together with the pages mixed up! Some with 2 of this and others with 2 of that!

We have more copies of the Quarterly on the way from the printer. Danny will send you a replacement along with the missing drawings.

Send a request to G. Danny Gingell at: K3TKS@abs.net

Include your mailing address as Danny does not have all the addresses at his place. Just a few Quarterlies!

Thanks,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sun, 25 Jan 1998 00:13:07 -0500
From: "Dean Marzocca" <n2tnn@ifu.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [1868] logging program
Message-ID: <199801250514.AAA25822@ifu.ifu.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Palmtop owners,

I finally joined the ranks and acquired a Cassiopia last week. I remember a post around here about a logging program fit for the CE software. Please provide clues where the program can be located. If I have to write my own script for Excel then let me know. This is a neat little work machine and it sure will beat lugging the laptop out on field day.

How about any other nice little programs that fit the memory? I am just getting started and have not heard much in the past few weeks.

Thanks,

72/73 Dean N2TNN NJ
n2tnn@ifu.net

Date: Sun, 25 Jan 1998 00:26:31 EST
From: PGSPersEng <PGSPersEng@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1869] Elmering: Let's Start!
Message-ID: <848b5ba4.34cacd0a@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi gang,

I've been following the discussion on elmering with great interest. Forget the arguments back and forth (some of which I find somewhat condescending and get me sorta angry) -- if somebody doesn't want to read a posting on the topic, hit the key! But let's do something!

My suggestion: Have list members describe **all** the ins and outs of a particular rig. Let's go with a circuit that's nontrivial (ie, interesting and practical) yet not overly complex. Also one everyone has access to. My suggestion is the 38S, a rig that **many** of us are familiar with. The schematic is available for all on the Norcal web site. The downside is that it's out of "production" (rumors were, though, that it was going commercial?), making it tougher to play with the circuits because they no longer come in a convenient bag-o-parts. My second suggestion would be the Norcal 40A because we would have the benefit of EE20 (Prof Rutledge's course notes) as a backup reference, but that rig's considerably more expensive than the 38S was (is?).

I suggest the project start at the antenna, working into the mixer, through all the other receiver sections and then go through the transmitter section (and for both rigs I believe we have the benefit of the original designers being around to handle misconceptions or disputes).

Does anybody want to make a stab at Chapter 1? Start at the antenna terminal and explain why **each** and **every** component is necessary, and then explain **exactly** how its values can be arrived at?

So I hear some of you grumbling, "OK, Paul, if it's such a great idea, then why don't YOU do it?" Well, for the same reason it's Saturday night, my wife went to bed by herself again and I'm at my PC working well into the wee hours. This entrepreneur stuff isn't always everything it's cracked up to be. Anyway,

the few spare moments I have I'll spend with my kids when I'm not trying to make a few household repairs, shoveling snow or whatever. And maybe an hour or two every now and then on the air. Yes, it's a matter of priorities. I could put this project at the top of my To Do list, but I'm not prepared to make that commitment -- to a large degree because I don't think my level of technical expertise is up to the task without investing megahours into it; my limited design skills are pretty rusty.

Somebody else, though, might be able to knock out the first chapter in half an hour. Yet another person could take over the next few components. Gees, as a group QRP-L could co-author a book! (who gets the royalties? -- or do we just put the finished product on the net for the benefit of all?).

Any takers? From the sound of recent postings, you'd have many grateful list members.

Thanks,
Paul, AA1MI

Date: Sun, 25 Jan 1998 00:27:26 -0500
From: "Dean Marzocca" <n2tnn@ifu.net>
To: "NJ QRP list" <njqrp@waterw.com>
Cc: "Knightlites" <klqrp@waterw.com>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [1870] beacon again
Message-ID: <199801250529.AAA26134@ifu.ifu.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

OK,

The requests have been overwhelming. The beacon is back again tomorrow. Again, we are looking for reports to help us understand propagation on 80 meters. This information will help us determine the best time for a new 80 meter net. The Pixie frequency is our first choice. Daylight and night waves will be sent and your response is appreciated.

Time: 3pm-4pm EST and 9pm-10pm EST(or thereabouts, according to the game schedule)
Date Jan 25, 1998 (superbowl Sunday)

Rig Index Lab QRP+
Antenna Dipole NE -SW
Power YOU tell ME

Keyer TiCK -2B (beacon mode) (very slick tool)

Please respond back here with your report. I will compile the results as soon as possible.

72, Dean N2TNN NJ

n2tnn@ifu.net

Date: Sat, 24 Jan 1998 21:32:06 -0800
From: "D.K. Philbin" <dphilbin@slonet.org>
To: qrp-l@lehigh.edu
Subject: [1871] "Ugly Weekender"
Message-ID: <1.5.4.32.19980125053206.006b90a4@slonet.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dear Friends,

While living in Denmark (two years ago) I caught the qrp bug and the ugly weekender (xmtr and receiver) was the first rig I ever built from scratch. I wrote to the ARRL and was sent the circuit board templates..I joined the local ham club in Birkerød (20 Km North of Copenhagen) and they taught me how to make the acetate films from the templates and the circuit boards. I substituted European transistors and any other parts I could find from the clubs (OZ6BIR) junk box.

I learned about qrp-l while working on this project and a very generous ham from Washington state sent me needed caps for the VF0.

The rig worked great although I had to add a double tuned top coupled filter to the input as the "foreign" broadcast stations would just overload the front end.

I made many enjoyable contacts and I learned a great deal from that rig! I encourage anyone to build one...just because it doesn't have an NE 602 in the front end doesn't mean that it will not work well!

Thanks for the trip down memory lane!

D.K. Philbin KD6TK, OZ2DKP

At 09:38 PM 1/24/98 EST, you wrote:

>Having had good luck with building KA7EXM's 40m "Ugly Weekender" transmitter
>(1993 ARRL Handbook) and companion rx (June '92 QST), I would like to build a
>30m version. Somewhere I remember seeing a reference to a 30m adaptation of

>the UW, but no specifics.
>
>Does anyone have any specs and/or hints as to component changes necessary for
>30m?
>
>I realize this design is not in the league with current QRP transceivers, but
>it is an easy junkbox project that really works well. It's the only one I've
>seen which includes a true vfo that's easy to get working. The companion
>receiver is DC, but competes well with some of my qrp superhets.
>
>Anyway, any assistance from you guru's will be greatly appreciated.
>
>73,
>
>Jim, AA3BP
>
>
>

Date: Sat, 24 Jan 1998 21:40:29 -0800
From: W7LS <w7ls@blarg.net>
To: PDouglas12@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [1872] Re: KnightSMiTe prototype success
Message-ID: <34CAD04D.1FCD@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, Preston!

I'm a beta-dude, myself.... My SMiTe went together without a hitch, too. Took me an hour, flat. 145 mW from a 8.6 volt battery. 74 microwatts radiated during receive. 10 mA current drain on receive. 48 mA drain on transmit.

Man, this thing is tiny. Fits neatly underneath a 9v battery, with nothing showing. Only a quarter of an inch thick.

BTW, I was able to almost double the VX0 spread, using a pair of 3686 crystals in parallel. Being as this is America, and more is always considered better (qrp is more capability with less juice), I'll bet that you could parallel an infinite number of crystals and spread out from dc to light. :-0

73 de Jim, W7LS

PDouglas12 wrote:

>
> Hi Gang,
>
> I have had the privilege over the past year or two to get my mits on a number
> of pre-production kits for beta testing. I suppose the idea is to send the
> kit to a fool like me to make sure it is fool proof. Well, you guys are in
> for a treat this time. The Knight Lites down South of this locale have put
> together a doozy.
>
> The KnightSMiTe is a Pixie derivative with full QSK and offset with a little
> bit of adjustment available around 3.686 (maybe a kHz or so) in an all surface
> mount version. That's right all surface mount. Get out your magnifyers and
> give this new technology a try. If I can do it, you can do it. Mine worked
> off the bat, and I made my first contact this evening. It comes with terrific
> instructions, with lots of info on how to deal with new surface mount
> parts/boards. This one is tiny enough to try to put into something
> interesting, though you may need to consider a metal case for
> intermod/broadcast interference in the little DC receiver at night. I get
> about 150 mW on transmit with a 9v Alkaline battery. Check with Bob Kellogg
> (ae4ic@nr.infi.net) for pricing, but these little fellers are a steal and they
> work. Since local nets here on LI/NJ are starting up on this freq and the KL
> net meets there on Sunday nights, this baby rig ought to be a fun way to check
> in or for those Pixie contests. This is a Pixie, when you check under the
> hood, so to speak, so it should qualify for the Pixies' competitions too.
>
> Anyway, it is a blast doing test piloting, especially for such a neat kit.
>
> 72,
>
> Preston WJ2V

Date: Sun, 25 Jan 1998 01:09:50
From: Steven Weber <kd1jv@moose.ncia.net>
To: n3fel@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [1873] Re: How do I Print the solder side from Circad ver 3.8
Message-ID: <3.0.3.16.19980125010950.2c175fc6@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howard,

When you print to the toner transfer film, you don't need to reverse from
the top side view. If you think about it, it comes out right when you iron

it onto the board. It's the layouts published in magazines which are shown from the solder side that need to be reversed before making the board.

You also don't want to print the top silk layer along with the tracks. You print just the top silk to a piece of paper show where the parts go when you build it.

So, you just want to print the pad master (or you don't get the pads) and the track layer you laid out your tracks on (probably the bottom layer, if you stick to conventions) The exception is if your using SMT parts, as the layouts are all for the top side. So, when using SMT parts, I think of the top layer as the bottom. As long as its a single sided board, it don't matter much which layer you chose to use.

To get the darkest print out, set the pen to 7.

If you do wish to print a mirror image for some reason, (like if your sending the layout to a magazine which will want to publish it as the bottom view, forcing everyone to make a reverse image first), go to the [plotter output] menu from the [plotter out] menu. In the image scale setting, use -1.000 for the scale, and it will mirror the image. (Also use the image setting if you want a X2 image 2.000 is X2, 3.000 is X3, etc)

Oh and remeber, you don't have to use a full sheet of film when you print the image. First print to a piece of paper so you know where the image will be. Then tape a piece of film, about 1/2" bigger than the image, to the paper. Double sided tape is probably best for this. Now put another sheet of paper between the film and the paper you taped to. This will keep the toner from the image behind the film from sticking to the back side of the film, which gums up an the iron when you do the transfer.

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 24 Jan 1998 22:33:49 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: dphilbin@slonet.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1874] Re: Toko IF cans..ID
Message-ID: <iDAcWBANxmy0Ew8t@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <1.5.4.32.19980124181631.006b49f8@slonet.org>, "D.K. Philbin"
<dphilbin@slonet.org> writes
>Dear Friends of the Ether,

>
>I purchased from Dan's (along with the MW 80/20 active filter..without any
>paperwork!..you may have seen that post) a bag of assorted IF cans.
>They all are Toko with strange markings and I am looking for your advice as
>to how to ID them.
>
>The tops of all the metal cans, surrounding the screwdriver adjustment are
>the words Toko RCL. (Any idea what RCL means?).

The Japanese equivalent of Inc. or Ltd., I'd think.

> They appear to come in four flavors based on the color of the adjusting slug
>

The colours generally indicate the position in the Rx:

Red	Osc.
Blue	?
Green	10.7 MHz 1st IF
Yellow	455 kHz 1st IF

> Slug color	ID numbers on the side of the cans
>Red	7517
>	115711
>	1
>	Japan
>	
>	
>	
>Blue	7517
>	115711
>	7
>	Japan
>	
>Olive green	7517
>	115711
>	2
>	Japan
>	
>Yellow	7517
>	115711
>	6
>	Japan

>
>On the bottom there are 4 pins...excluding the two locating tabs that are
>actually part of the metal "can". Here is the rub...only three of the pins
>show continuity!
>This appears to me to be a coil with a center tap...a center tapped
>transformer with out a secondary?

The four pin base is very strange! *All* the canned Toko coils in my
Bonex Toko catalogue have five or six pins. They look like "specials".

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " "/diy_dsp.htm for a simple DIY DSP ADSP-2104 system.

Date: Sun, 25 Jan 1998 00:05:36 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: qrp-1@Lehigh.EDU
Subject: [1875] Low pass filters and bootstrapped amps...
Message-ID: <Pine.LNX.3.96.980124235254.702C-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

OK, I have two questions...

1) As most of you already know, I'm working on my own 40m rig. I've been
toying with the VFO and using a simple diode "mixer", like so:

```
\|/  
+----->|-----*----->headphones  
          |  
          R=10K  
          |  
          VFO
```

While it's not the best, and I can't hear a damn thing with it (;-D), I
can tune the VFO, and I can hear 60Hz and 120Hz hums at different
positions of the tuning dial. I'm going to assume that it's mixing fairly
well (for what it's worth, we have high tension wires across the street
from our apartment, which is probably why the 60 and 120Hz hum is so
strong).

There's a small problem with this scenario, however. First, the VFO isn't

buffered yet. The VFO, with its output left floating, puts out a fairly decent waveshape. However, when attached to the diode, I get clipping (which is to be expected). I think this is causing the VFO to start oscillating at even harmonics again... :)

Anyway, I've built a simple buffer for it. It's a 2N3904 with a 1K emitter resistor. I'll be attaching it permanently to the VFO tonight. With the reduced stray-C of deadbug construction, this should present a fairly constant 100K impedance to the oscillator, with 5 ohm output (according to ARRL handbook) impedance, yes?

After the VFO/Buffer combination, however, I still need a decent low-pass filter, so that I can have only 40m-band sinewaves emitting out of the VFO. Does anyone here have any suggestions? I was thinking something like the following:

```
>---^^^--*---^^^--> output
      |
      ===
      |
      ///
```

Is this sufficient? How much insertion loss will I get (the filter charts in the ARRL handbook is rather vague on stuff like this). Since the filter will be hooked to the emitter of the buffer transistor, does this mean the input impedance of the filter needs to be 5 ohms?

OK...here's the second question:

2) I was reading through the Horowitz and Hill "Art of Electronics" not too long ago, and saw something on "bootstrapped amplifiers". Has anyone ever worked with these? I tried building one on a Radio Shack breadboard (just a quick thingie), and it did amplify, but it didn't seem to exhibit anywhere near the input impedance claimed by the authors. When I removed the emitter capacitor, the gain improved significantly too. According to the book, this should never have happened. Why is this?

Any insight to these questions would be appreciated. Thanks a bunch!

=====

-| TEAM DOLPHIN |-
Chief Architect and Project Founder
(web page under construction)

PGP 5.0 Public Key Available Upon Request.

Date: Sun, 25 Jan 1998 01:20:34 -0800
From: W7LS <w7ls@blarg.net>
To: qrp-1@Lehigh.EDU
Subject: [1876] TEntec 1320 sold! Thanks, all.
Message-ID: <34CB03E2.4122@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to all who responded to the 1320 for-sale ad.

73 de Jim, W7LS

Date: Sun, 25 Jan 1998 06:37:50 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: John Levreault <jlevro@shore.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1877] Re: Twist on Elmer Project
Message-ID: <Pine.SOL.3.94.980125063500.17855C-100000@moe>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> I run into a lot of situations where someone designs up this elaborate
> contraption but then can't figure out how to bias a transistor. You gotta
> start at the beginning!

You know you are getting old when you remember when biasing a transistor was brand new and complex stuff--all this fancy current-driven semiconductor stuff. It was quite a shock the first time I had an upgrade class with a group of office equipment technicians who knew all about transistors but longed to know how those mysterious voltage-driven vacuum tubes worked.

-73-

LB, W4RNL

Date: Sun, 25 Jan 1998 06:50:20 -0500 (EST)

From: bruce muscolino <w6toy@pop.erols.com>
To: leon@lfheller.demon.co.uk
Cc: QRP-L@Lehigh.EDU
Subject: [1878] Re: Toko IF cans..ID
Message-ID: <2.2.16.19980125074121.2b571d56@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>The colours generally indicate the position in the Rx:

>
> Red Osc.
> Blue ?
> Green 10.7 MHz 1st IF
> Yellow 455 kHz 1st IF
>

True, the core color designated where the transformer/coil is used, but there is not necessarily a relation to to freequency. Within a set -- 455, 796, 10.7, it's the position.

73

Date: Sun, 25 Jan 1998 07:26:57 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Larry Cruise <Larry.Cruise@mci.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [1879] Re: Elmers wanted...take charge yourself
Message-ID: <Pine.SOL.3.94.980125071205.17855G-100000@moe>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Larry,

Many thnaks for the kind words on the old "7 Steps to Designing. . ." It was an enjoyable task back in the mid-late 70s. The "thinking" part and the division of the design work are still apt. However, back then, there were no common chips available for ham projects, and tubes were still used in many circles for lower power applications. So the illustrative material would need a good update to be current.

However, it is fun to go back and look at some of the basic design ideas I was urging back then before they were common. For instance, a single VFO unit with modules for each band including a VFO mixer and amplifier stages (including output filtering) customized for each band. The object was to

minimize RF switching except at harmless points. For instance, the use of a back plane with plug-in boards for each circuit module (with RF interconnections done with shielded cable from board to board) so that a rig could be a long term experiment in alternative techniques and improvements.

But all of that is pre-surface mount, pre-synthesizer, pre-602, pre-historic. Still, I appreciate the kind words and hope the design thinking parts of the book have long-term use after all of the circuit illustrations have lost their relevance.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215
1434 High Mesa Drive	/	\	\	----	/	----	(Hm)	(423)	938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\					cebik@utk.edu
QRPARCI 2572	G-QRP 7203	CQC 125	NEQRP 347	NORCAL 1111	MIQRP 1432				
NWQRP 401	ARRL Life: Technical & Educational Advisor						10-10	41159	
QCWA 13211	scQRP 28	CW Ops QRP Club (VK) 476	FISTS 2600						

Date: Sun, 25 Jan 1998 07:07:03 -0600
 From: "JUNIUS B FOX" <w5hir@gte.net>
 To: <qrp-l@Lehigh.EDU>
 Subject: [1880] MFJ 6mtr xcvr
 Message-ID: <199801251309.HAA21298@smtp2.mailsrvcs.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=ISO-8859-1
 Content-Transfer-Encoding: 7bit

Does anyone have an MFJ 6 meter ssb xcvr to sell?
 If so, please contact me by direct e-mail: w5hir@gte.net.

Regards,

Foxy

Date: Sun, 25 Jan 1998 10:01:06 -0500

From: Craig LaBarge <LaBarge_C@compuserve.com>
To: QRP-L Mailing List <qrp-l@Lehigh.EDU>
Subject: [1881] Navy Code Training
Message-ID: <199801251002_MC2-308F-5032@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Greetings:

I just placed online a chapter on "International Morse Code" from a 1967 Navy Radioman training manual. Not only is it a nostalgic piece for ex-Navy operators, but some of the info may be useful to hams. In =

particular, there's some good information on the =

proper adjustment and sending techniques for straight keys and bugs. Plus, some general advice on learning the code.

I scanned in the graphics and converted the text to HTML format for easier browsing. You can get to it from the "Ham Radio" section of my homepage at:

http://ourworld.compuserve.com/homepages/LaBarge_C/

There's a chapter on antennas and propagation that I will probably put on line in the future.

73, Craig WB3GCK

Date: Sun, 25 Jan 1998 23:58:46 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [1882] RF Parts web-site? E-mail?
Message-ID: <34cb6136.pandora@pandora.lugs.org.sg>

Hi,

Sometime ago I saw someone post the Internet contact info for RF Parts. I need to get their e-mail and/or web site address. If you have it, could you drop me a line. Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                     |
+-----+-----+
```

Date: Mon, 26 Jan 1998 00:01:26 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [1883] How to check for matched pair of transistors?
Message-ID: <34cb61d7.pandora@pandora.lugs.org.sg>

Hi,

I sometimes see transistors sold as matched pairs. Does anyone here have a good explanation of how this matching process is done? What does it entail and is there an easy way to find a match pair from a handful of transistors? Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                     |
+-----+-----+
```

Date: Sun, 25 Jan 1998 08:07:22 -0800
From: David Shalita <af389@lafn.org>
To: qrp-l@lehigh.edu
Subject: [1884] Re: QRP-L digest 980
Message-ID: <34CB633A.4B4ABF53@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Date: Sat, 24 Jan 1998 18:01:20 -0500
From: n2jgu@juno.com (Gary M Diana)
Subject: [1852] KI6DS's Tuna Tin Two Transceiver

> Hello All -
> Today I produced a bunch of Tuna Tin Two Transmitter boards,
using the CIRCAD artwork file provided by Doug KI6DS.

> You can see images of these "fresh out of the etch" beauties at:

> <http://www.frontiernet.net/~embres>

> 73 for now...
> - Gary N2JGU
> n2jgu@juno.com

Hi Gary,
Images are terrific.

Did you make the PCBoards using the Toner Transfer method with
Blue PnP film?

Those boards look so nice including the tin plating.

Thanks for any info.

73, W6MIK

--

Dave Shalita, af389@lafn.org

Date: Sun, 25 Jan 1998 09:17:09 -0700 (MST)
From: bcutter@teal.csn.net (Bob Cutter)
To: ku7y@dri.edu
Cc: qrp-1@Lehigh.EDU
Subject: [1885] Re: Conductive grease
Message-ID: <199801251617.JAA12919@mailman.sni.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ron,

Actually what I want is clear and I had some once with a sprinkler timer
that ran on batteries. I want to put it on the contacts of a AA battery
pack I am taking down the Grand Canyon this summer.

72, Bob KI0G

Date: Sun, 25 Jan 1998 11:41:34 -0500
From: "Ken Hanks" <kennfd@ibm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1886] Gel Cells, again
Message-ID: <01bd29b0\$192240a0\$087f2581@kh>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm not sure if this was posted last week, but I have a question on charging
gell cells.

Is it OK to use an automatic battery charger to keep them charged. I am
looking at 2 different charges right now. One is a regular automatic car
battery charger-shuts off when battery is charged. The other is a battery
maintainer. Box says it holds the charge on a 12V battery. Designed for
auto and deep cycle, will it harm gell cells?

\$45 dollars for the charger, \$29 for the maintainer. My use for the gell
cells (12V 6 to 7 Ah) is occasional field use with QRP transceiver.

tnx es 72,

Ken Hanks K1XS@ibm.net

Date: Sun, 25 Jan 1998 15:12:00 EST
From: Al Bates 617-589-0165 <BATES@A1.MOS.ORG>
To: QRP-L@Lehigh.EDU
Subject: [1887] NEW ENGLAND QRP WEB PAGE
Message-ID: <01ISSJUX350K8WX4RV@a1.mos.org>
MIME-version: 1.0
Content-type: TEXT/PLAIN

DE W1XH: The NEW ENGLAND QRP WEB PAGE is up and running. Check

it out for whats new with the New England QRP Club. URL is

<http://www3.edgenet.net/eei/neqrp/index.htm>

Date: Sun, 25 Jan 1998 17:12:25 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
To: qrp-l@Lehigh.EDU
Subject: [1888] Elmering - Articles and Books
Message-ID: <199801251713.MAA26737@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I have been following and occasionally posting to what must be the longest thread ever on QRP-L. Several posts have said that we really need a series of "HowTo" articles written for the beginner. Several books have been mentioned, one by L. B. Cebik, and several by Demaw.

There is another one that has been mentioned but glossed over- QRP Power - by the ARRL. Since it is fairly new (compared to the other books mentioned) it is not as familiar to most of the list as the books by W1FB. There is a four part article in QRP Power titled "Build it Yourself from QST". It takes the first time builder through the entire process of building a 20m VXO controlled transmitter beginning with where to get the parts, how to figure out what parts are really needed, how to breadboard the circuit, how to build it on a PC board, how to package it in an enclosure, and how to test and align it. The article includes excellent photos of the parts, parts placement, and photos showing how to "ugly construct" the first project.

Also in the book is an article titled "Revisiting the 40-40" covering the construction of two 40-40 rigs. It discusses the design processes that went into actually building two different 40-40 rigs. What parts were used, why, how the different rigs were put together, etc. Again - there are excellent photos.

It just happens ;>} that I have some of these books in stock. I will continue my special offer of a month ago - \$12 will get the book shipped to you via priority mail. I also have both the W1FB books in stock.

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sun, 25 Jan 1998 11:37:10 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: launerb@crl.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1889] Do We Really Need to be Soldering First? (long) (was Elmer project)
Message-ID: <34CB7846.578D81B7@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

One other approach to gaining the ends of this most interesting thread has not, to my knowledge, been mentioned.

The key word is SIMULATION. While slinging solder is fun and has great value (I prefer to program in SOLDER), it is not really necessary to actually wire up physical circuits in order to study their design, behavior, component tolerance effects, etc. In fact, several good arguments can be advanced against using valuable time and equipment/component dollars in hands-on lab construction until a degree of competence and circuit understanding has been gained.

For much less than the price of even a modest lab (breadboard, power supplies, scope, analog voltmeters and ammeters, DVM, signal generator, digital word generator, etc. etc. and a large and varied supply of capacitors, resistors, transistors, basic IC's. etc.), you can buy a simulator package that includes all the above plus much, much more.

Perhaps a key factor here is that circuit operational capabilities extend from DC to about as near light as you want to go. The only frequency limits are those involved in the circuit device models, and those can be changed as needed.

You can completely "breadboard" that QRP rig (published design or your own) and wring it out to see what is really going on in there. Or you can tweak parts and values by the hour to "optimize/enhance" the design.

I use Electronics Workbench 5.0 and with it I have yet to find a real circuit (and a few off-the-wall ones!) that I could not construct and then fully explore with a full array of test instruments. I have thousands of passive components available as well as thousands of active devices. Unlimited power supplies, analog meters, etc. Sophisticated scope, frequency-response (Bode) plotter, word generator, DVMs, and on and on. Full capabilities in analog and digital circuitry and components and in mixed circuits combining both.

For under \$300 full list (educational institutions get large discounts) and even a tolerable computer you can have a completely equipped lab available for use day or night in any convenient room of the house - no special "shop" needed. Plus you do not have to dig cold solder out of the carpet when you have finished work!! (If that makes no sense now, it will after your first few soldering sessions, especially if you are married!)

Think about this approach. Most colleges and tech schools these days employ simulators for lab work instead of using actual parts and instruments. They work, are affordable and provide the student with a far richer learning experience than stacks of "real" test equipment and trays of components.

Perhaps the biggest advantage of all is that all the simulated smoke stays inside all the simulated devices when you boo-boo!

Now, don't get me wrong: I do not for one minute advocate NEVER building circuits and slinging solder, but that is not the only way to combine learning and doing. You can tell from my call - original issuance by FCC - that I have been around the mountain a few times in 51+ years of hamming. That plus a couple of EE degrees and 45+ years in the engineering profession have all convinced me that sooner or later, you gotta burn some rosin! But, that is not the ONLY way to get there and certainly may not be the best way to start on the journey.

--

73, George
Amateur Radio W5YR
QRP-L #1373
AutoPOWER Systems
Fairview, TX

<some snips>

> >When it comes to an applied area like electronics, theory is
> >useless in isolation. So is practice. Only by combining the two
> >(they reinforce each other, often spectacularly) can one really
> >learn.

>
> Laura is correct, you need both theory and actual practice to learn.
> When I studied EE at the University of Illinois (mostly tube circuits,
> transistors were a fledgling device in the early '50s), all basic
> electronics courses consisted of both class and lab work. After
> we had studied a circuit, we breadboarded it in the lab, and then tuned,
> measured, and tweaked it to find how the values of the various components
> affected the performance (sometimes, our results were catastrophic!).
> This reinforced our understanding of the circuit, as well as teaching the
> use of basic instruments for troubleshooting.
>
> Building from the current crop of kits, published "how to" articles, etc.
> will enable one to learn construction practices. However, there is one big
> problem with using them to learn how things work; that is the lack of
> components such as inductances with tuning slugs, and variable caps in
> tuned circuits. It's simply too hard to "off-tune" a circuit composed of
> toroid
> coils and fixed value caps to see the effects! The recent thread about
> "how tight do you wind toroids" is a case in point.
>
> For training, I think we need to go back a bit, forget "miniaturation",
> and develop on some designs that use some of the older style components.
> Yes, you will occasionally let the smoke out, but as long as you use
> inexpensive devices like 2N2222s and 2N3904s, it won't set you back much
> and will be well worth it in learning. Anyway, how can you learn
> troubleshooting if you don't have a failed component?
>
> 72/73, Bill wb0cld
>
> Bill Launer
> St. Charles, MO
> launerb@crl.com
> wb0cld@wb0cld.ampr.org [44.46.66.25]
> qrp-1 #279 qrp arc1 #3551
> Grid Square EM48RT

Date: Sun, 25 Jan 1998 17:49:26 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: PGSPersEng@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [1890] Re: Elmering: Let's Start!
Message-ID: <199801251749.RAA16684@chuck.dallas.sgi.com>

Paul et.al.,

A good idea.

Before I start on this thread just a note to other designers and kit manufacturers. I own just about every rig ever kitted and in many cases more than one, so I am trying to be impartial here, but it is difficult with the price range available, so don't be offended by the choice here. It is just a starting point and I figure if we get more builders then more money comes into play later on. The price of education is always a daily issue in the real world.

But before everyone starts out on this project of elmering, may I throw one more rig into the fire, so to speak?

How about the NE4040? Here are my reasons and mine alone:

1. Schematic was in QST November 1994 issue in article by Dave Benson, NN1G.
2. Schematic is in print with the new QRP POWER book for \$12 from ARRL.
3. There is also in the QRP POWER book an excellent article by KB6FPW and AE6C, Mitchell Lee and Dennis Monticelli respectively on mods and their improvements.
4. The kit is still commercially available from Small Wonder Labs, NN1G himself, for only \$55 US currency. This for people who live in remote areas or don't have a local parts supplier (and they are getting few and far between) and don't want to work through Mouser's catalog on or off the web. :-)
5. FAR circuits still has the boards, last I saw, for those who think they want to scrounge parts or have them in their junk box.
6. It is an excellent performer on 40M for the money. Puts out over 1W and has a very good superhet receiver for the price. Almost no drift from a cold start on my rigs.
7. It can and has been built and run on 80M, 40M, and 30M. I have several of these rigs running. On 30M the receiver is starting to lose sensitivity as expected and this can be discussed in elmering sessions. I wouldn't even considering moving one to 20M. But it leaves open the discussion and experimentation on how to make it better.
8. The mods will come out of the woodworks.
9. It can be built ugly-style or other ways not using a PC board.

10. It is suitable for discussion on signal flow and filtering, etc.

Here is a complex topic that this thread opens. People will ask why one rig? Why did someone pick this rig to work on? Well it's just a matter of a group of people making a decision (right or wrong) and going on the adventure. Any elmer has to make the same decision. Why did Scout Leader so-and-so pick the Pixie II as a building project?

Some will want a cheaper entry point, of course. Myself, I'd go for the NE4040/SWL40 because of what you wind up with for the money. Low end rigs have their place, but I keep getting all kinds of email asking about front-end overload from BC stations with the Pixies and other rigs which I won't bring up. After you get someone started you want them to get the enthusiasm and avoid the disappointments that will stop them from going further. I think the \$50 or so price point is a good one for teenagers and a lot of adults, of course not counting the tool costs, but I've seen 25W soldering irons real cheap.

Without the case and connectors we get an opportunity to get individuals to be creative from constructing their own enclosure to using all kinds of available or modified cases and tins..... Discuss the BNC vs -239 issues, stereo vs mono jacks, etc.

Now we don't have to pick just one rig, but it will slow down the traffic on QRP-L using just one rig if traffic load is an issue. :-)
But for my money, a technical discussion and an elmering thread is worth a lot of bandwidth. We all learn something.

I'll discuss with NN1G the legal and technical issues between QRP-L, SWL and the ARRL just to make sure we don't cross copyright issues, etc. I'm pretty sure that Dave has all rights to the design and we don't want to anything to negatively impact his business.
Maybe even a group buy. :-) ;-)

Of course, you all realize that come next year the 7.040MHz region will be even more crowded with the 'little people'. :-)

For the discussion at hand. It will be interested to see just how many individuals will 'play along' and get a kit and work on it that haven't before. Also this is a great opportunity for individuals to become elmers in their local community by getting a group together one night a week or weekends to work on building and getting on the air.

FYI

Chuck Adams K5FO CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Sun, 25 Jan 1998 13:16:25 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: qrp-l@Lehigh.EDU
Subject: [1891] SWL-40 /NE40-40
Message-ID: <Pine.GS0.3.96.980125131206.26632A-1000000@xena.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The SWL kit is a bargain. It is well documented, comes complete with board and board mounted parts. Troubleshooting help is available from SWL and here (QRP-L). The transceiver is a great performer and a good beginning kit. One of my first contacts with mine was with Spain on 40 meters. Mine was set to 950mW.

No I don't work there :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sun, 25 Jan 1998 13:22:18 -0500 (EST)
From: Bensondj@aol.com
To: qrp-l@Lehigh.EDU
Subject: [1892] Re: CW in a song
Message-ID: <980125132216_1852929187@mrin52>

>>Date: Fri, 23 Jan 1998 23:36:35 -0500
>>From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
>>To: rhiller@sysdev.com
>>Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

>>Rick Hiller wrote:
> Iron Butterfly,
>Inna Gadda Davida?

(Huh?)

Byrds- "Lear Jet"

// It's amazing what piles up after a few years- one of the benefits to getting older. Perhaps we need a 'mental flea-market' to sell off the stuff we don't use anymore?

;-)

73- Dave, NN1G

Date: Sun, 25 Jan 1998 13:25:24 -0500
From: "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
To: qrp-l@lehigh.edu
Subject: [1893] Re: Elmering: Let's Start!
Message-ID: <05256597.0064B540.00@dpcmail.dukepower.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Another thing I could mention about the Nov'94 article is that it has a good set of instructions on how to "elmer" this project, set up for a group project, etc. No one will have to figure out how to do this part, although some aspects may need to be "tailored" a bit if doing this via e-mail.

Good choice, Chuck. I'd go for the "group buy" if it comes to pass as I need a rig like this one.

Info on mods for this rig would be interesting too.

Watson/WB4EXW

----- Forwarded by Watson R Gabriel Jr/Gen/DukePower on
01/25/98 01:19 PM -----

How about the NE4040? Here are my reasons and mine alone:

1. Schematic was in QST November 1994 issue in article by Dave Benson, NN1G.

Chuck Adams K5FO CP-60

<http://reality.sgi.com/adams> adams@sgi.com

Date: Sun, 25 Jan 1998 14:21:04
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [1894] Re: Toko IF cans..ID
Message-ID: <3.0.3.16.19980125142104.2c1f0d12@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Only way to know for sure what inductance they are is to measure them.

One way if you have a signal generator and a scope is to put a cap across the coil, say 100 pfd, couple in the sig gen and see what frequency it peaks at. Since you know the capacitance, you can figure out the inductance.

Or get a ADDC LCII meter and read the value directly....

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sun, 25 Jan 1998 13:47:02
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [1895] Re: Elmering: Let's Start!
Message-ID: <3.0.3.16.19980125134702.2e8f1298@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Funny Chuck should suggest the NE4040 as an Elmer project. Couple of days ago I started building one with the goal of making it work on 6 volts.

Never one to leave well enough alone, I'm also trying out a few ideas, such as eliminating one of the NE602's by using the product detector also as the Tx mixer. (Looks like it works) For some reason I can only get about 1/2 watt out of the Tx, which is disappointing. Last night I got the Rx to work, but still have to finish up the audio amps to really know how sensitive it will be.

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sun, 25 Jan 1998 13:18:58 -0600 (CST)
From: "Jeff M. Gold" <JGold@ntech.edu>
To: qrp-l@Lehigh.EDU
Subject: [1896] NW80, funky TX? help!
Message-ID: <01ISSMUKR4XU8WW765@ntech.edu>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

All,

Howdi,

well got bored and ended up finishing the NW80-80 board last night. It actually went together quite easily. Some fun identifying parts provided and finding parts in my shack for missing parts.

Well all seemed to come right on line. The receiver adjustments all had sharp peaks, and the receive seems fine. The TX also had sharp peaks.

Problem is that it puts out well over 10 watts (C1678 final). first there was a bit of a problem at the bottom of the wave form when I turned the power under 8 watts. then I saw in the schematic to put a ferrite bead on one leg. No more problem. beautiful sine wave at all power settings.. not sure that the two events were casual.. but that is my guess.

OK, the problem is that if I peak the TX for say 5 watts in the middle of the VFO range (think the range is about 108 kcs) then I get almost no power on either end. If I put the power up to about 8 or 9, then I get about 4-5 on the ends of the range.

Think this is because of Dan's substitute parts (I don't think so.. everything seems fine) or maybe L5 needs to be rewound.?

Help will be greatly appreciated.

72

Jeff, AC4HF

Date: Sun, 25 Jan 1998 19:19:34 +0000
From: K3TE <qrp@earthlink.net>
To: qrp-1@Lehigh.EDU
Subject: [1897] FS: OHR WM-1, Healthkit HM-9, Argo Module
Message-ID: <3.0.5.32.19980125191934.007a2d90@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale to a good QRP shack:

Oak Hills Research WM-1, good condition, \$50

Heathkit HM-9-A 5/50 watt wattmeter. Matches HW-9, good condition,
\$50

Ten-Tec 80 meter module for Argo/Scout \$20

all prices are "shipped CONUS"

Thanks for the bandwidth

<http://www.qsl.net/k3te>

Date: Sun, 25 Jan 1998 12:00:39 -0800
From: Robert Bayha <rbayha@ix.netcom.com>
To: adams@chuck.dallas.sgi.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1898] Re: Elmering: Let's Start!
Message-ID: <34CB99E7.7BDF5A8E@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Count me in!!! This makes sense to me: Readin', Doin', Listin'.
Hey, could that be the "theme song"? Hi, hi.

Bob Bayha, K6RKB
QRP-ARCI #9505, CQC #488
G-QRP #9884, NorCal #2394
QRP-L #1209

Chuck Adams wrote:

>
> Paul et.al.,
>
> A good idea.
>
> Before I start on this thread just a note to other designers and
> kit manufacturers. I own just about every rig ever kitted and in
> many cases more than one, so I am trying to be impartial here, but it
> is difficult with the price range available, so don't be offended by the
> choice here. It is just a starting point and I figure if we get
> more builders then more money comes into play later on. The price of
> education is always a daily issue in the real world.
>
> But before everyone starts out on this project of elmering, may I throw
> one more rig into the fire, so to speak?
>
> How about the NE4040? Here are my reasons and mine alone:

Date: Sun, 25 Jan 1998 14:51:00 -0500
From: Richard Sherman <srichard@aldus.northnet.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1899] Re: Elmering - Articles and Books
Message-ID: <3.0.1.32.19980125145100.006c27b4@aldus.northnet.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:12 PM 1/25/98 -5, Bill Kelsey - N8ET - Kanga US wrote:

>I have been following and occasionally posting to what must be the
>longest thread ever on QRP-L. Several posts have said that we really
>need a series of "HowTo" articles written for the beginner. Several
>books have been mentioned, one by L. B. Cebik, and several by Demaw.

And one other reference that I haven't seen mentioned yet. In SPRAT #4, Autumn 1975, and SPRAT #22, Spring 1980, is an article by C. F. Rockey, W9SCH, "Prolegomena to QRP Transmitters." A fascinating 5 page treatment of how to build a transmitter, even I can understand it. And the SPRAT reprints are available from Bill N8ET, in either Vol. 1 or Vol. 2. On my copies the Vol. 2 article seems to have reproduced slightly better, but either is perfectly readable. Sorry but I don't remember the price, email Bill or check the Kanga web site for that info.

kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

The SPRAT reprints are a wonderful resource to have, I've enjoyed reading them the last few days. Get all 5 volumes, you won't be sorry. I have no connection with Kanga, or Bill, N8ET, except as a satisfied customer.

72 de Rick WZ2T in a more or less de-iced NNY
srichard@northnet.org

srichard@northnet.org
---If you're not part of the solution,
You're part of the precipitate.---
Steven Wright

Date: Sun, 25 Jan 1998 14:11:43 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: jskalski@acsu.buffalo.edu
Cc: qrp-l@lehigh.edu
Subject: [1900] Re: SWL-40 /NE40-40
Message-ID: <34CBAA8F.4BC0@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

J. Skalski wrote:

One of my first contacts with mine was with Spain on 40 meters.
> Mine was set to 950mW.

>
> 73,
>
> Jim N2GO
> The Buffalo QRP CONNECTION
> ARCI #9013 QRP-L #381
> Life member ARRL
> jskalski@acsu.Buffalo.EDU

I remember that the SWL-40/NE40-40 was the second QRP rig that I ever built. Worked the first time. Built it in to a RS project box and added a A&A CMOS Keyer to it. About 2-3 years ago, I was layed up with back surgery and confined to bed for weeks. At 3 am one night, I could not sleep. I had the SWL-40 and A&A Eng 30 meter rigs set up by the bed with coax strung out to the R-7. Flipped on the SWL-40 and down at the bottom of the band (had it set for about 7005-7040) I heard a pretty strong but warbly CQ KC4/UA3YH. I had the SW-40 set for about 1 watt out and figured no chance. After hearing him call CQ twice, I sent once N0TFI/QRP. He answered N0TFI/QRP 559 559 BK. After the heart attack, I

struggled to send back de N0TFI 579 570 C0 C0 OP JESS JESS ES QRP QRP 1
WATT 1 WATT de N0TFI BK. He sent R R FB UR 1 WATT ES FB FOR C0 73 ES QSL
SURE de KC4/UA3YH 73 dit dit.

After the shock wore off, if I would have been capable of a happy dance,
I would have worn the carpet out. To make a long story medium, if it had
not been for the SW40, this list and a love of radio, I don't think I
could have made it through 12 weeks confined to a bed.

Thanks to Dave Benson, and QRP-L, and a few other good hams, there is a
place for radio in my time that will never fade.....GEEZ now I am
starting to sound like an OF! That radio is still out there somewhere. I
lost track of who I sold it to on the list. If it is you (whomever),
please let me know that it is still alive and well out there
somewhere.....

Best

--

Jess N0TFI <><

<http://www.concentric.net/~jessqrp>

qrp-l #1232 CQC #92 1997 Fox

Date: Sun, 25 Jan 1998 16:18:28 -0500

From: "Ron Polityka" <wb3aal@talon.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [1901] NewsLine Amateur Radio News (in RealAudio)

Message-ID: <01bd29d6\$c7ff9d40\$665445c6@default>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello Everyone,

For all you HomeBrewers or Kit builders, check out
Newsline Jan. 23, 1998 #1067.

<http://tapr.org/newsline/index.html>

73, Good DXing & QRPing

Ron de WB3AAL

E-mail: wb3aal@talon.net

BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173

QRP-L # 1099 G-QRP # 3031 AK QRP # 309

Date: Sun, 25 Jan 1998 16:21:35 EST
From: KG2IM <KG2IM@aol.com>
To: QRP-L@lehigh.edu
Subject: [1902] FS:MFJ-9420
Message-ID: <3f3f2949.34cbace1@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have a MFJ-9420 for sale.
This is the SSb 20 meter QRP xcvr.
It also includes the CW option and mic.
I'm asking \$190 for the rig. It works great.
Contact KG2IM@aol.com if interested

Tnx 73, 72 John

Date: Sun, 25 Jan 1998 13:51:09 PST
From: "Ray Lowe" <wd5dhk@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [1903] Re: SWL-40 /NE40-40
Message-ID: <19980125215109.27361.qmail@hotmail.com>
Content-Type: text/plain

I have built the SW-30. It is the 30 meter version of the proposed elmer project. I feel it is a simple enough project that it would be excellent for beginners. It is a fairly good performer. It is not a toy radio.

The only drawback is it is not as selective as some of the other kits. That gives room for a second elmer project- Audio filters.

Enough of my babbling for now 72/73 Ray

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sun, 25 Jan 1998 13:56:13 -8
From: "Dan Hogan" <dhhogan@lightside.com>

To: qrp-1@Lehigh.EDU
Subject: [1904] Re: Elmering: Let's Start!
Message-ID: <199801252154.NAA20683@mail.lightside.com>

OK Chuck. Put me on the list I'll go with what ever radio is selected.

Dan Hogan WA6PBY
ARRL-VE*QRP-L*QRP-ARCI*NorCal*CQC*Fists*G-QRP*ARS*

Date: Sun, 25 Jan 1998 17:03:42 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: "qrpforum" <qrp-1@Lehigh.EDU>
Subject: [1905] CQWW 160M CW
Message-ID: <199801252206.RAA14673@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Well, Guys,

It's really Glen Weinfurtner's fault. I'd planned to assemble KnightSMiTe kits this weekend. (about half of the first batch are done except for the boards) Then Glen put the CQWW 160M rules on the list.

See, I've got this 160M module for my Sierra that's only made two or three contacts. Why not give it a try, just to see if I can make a few contacts?

Well, one problem. I don't have a 160M antenna or a tuner that will tune 160M. Just for fun I connect the ZM-1 to my 400' horizontal loop. No dice -- the ZM-1 isn't designed for 160M. Looks to me like it should work if I add more capacitance across the dual capacitor that tunes the inductor. Cut and try a couple of times and Bingo! 1.1:1 SWR on my horizontal loop! Quick and dirty efficiency check says, "pretty efficient!"

(Note, I have a popular commercial tuner which is advertized as tuning 160M, and which will indicate a match on 160M in some cases, but losses were up to 98% when matched)

Well, now I have an antenna, but the contest has started and It's time to take the family out to dinner.

We get back about 8PM and I hook up the Sierra and give the 160M module a final tune. If I stretch it, the WM-1 reads 1.5 watts max. As I tune across the band the power drops, so I decide to +/- 10kHz range before I

retune the module. Power will drop below 1 watt if I tune a much larger range. OK, I can live with that, I guess, but there's no 1 watt category -- QRP is everything less than 5 watts. Well, I got less than 5 watts -- let's go for it.

Signals are really loud, and there's little QRN on the band. Hunt and Pounce on one, and he comes right back! It's W4WA in Ga, a neighboring state. Try again, and get Va, then NY. This is beginning to be fun!

To make the long story short, I had a ball! Some of those guys high power guys were using water cooled linears, because their signal sounded like they were under water. :-) But, they heard me.

At first I worked stations that were close by, then the band went longer and I started working stations further away. There was a peculiarity to the band or to 160M. For the first time, I heard stations I couldn't work. Eventually, I heard Ca and Or fairly loud, but they could just not hear me. Worked Bob, N4BP early in the morning. I tried to get Harvey, N6MM many times and I know he'd have come back if he'd heard me. Must have been a lot of local QRM I couldn't hear.

There was a little band of frequencies reserved for DX, and some stations there. But, I didn't stand a chance. Each DX station was worth 10 points, so the big guns were all piled up, and there was no incentive for the DX to work a QRPer.

Bottom line:

145 QSOs in spare time
36 States/Provinces/Countries
Score 11,592
Fun Value \$5207+/-

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. -- Benny Hill

Date: Sun, 25 Jan 1998 17:30:53 -0500
From: n2beg@juno.com (Douglas E. Stewart)
To: qrp-1@Lehigh.EDU
Subject: [1906] Shuttle launch in Feb??
Message-ID: <19980125.173053.3726.0.n2beg@juno.com>

I know it isn't qrp, BUT my internet access has been temporarily disabled.. We are going to F1 (N2BEG/4) between the 11th and 20th of

February and would like to know if we will luck out for a shuttle launch. The toll free info # has the Endeavor going up on the 23rd of Jan...It did.. Email direct if you have any info, thanks!! (hope to be qrp on 40 and 30 during the trip)
73z, Doug, N2BEG qrp-1 # 850, etc...

Date: Sun, 25 Jan 1998 18:57:05 EST
From: RangerSF5 <RangerSF5@aol.com>
To: njqrp@njqrp.org, Qrp-1@Lehigh.EDU, epaqrp-1@Lehigh.EDU
Subject: [1907] beacon info
Message-ID: <321f2aab.34cbd153@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

What time will the Beacon be on,how long, and where is it located
Thank You
Bob
WA2HOQ
NJ QRP 126
EPAQRP-1 # 9
QRP-1 # 1437

End of QRP-L Digest 981

